

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau(43) International Publication Date
5 February 2004 (05.02.2004)

PCT

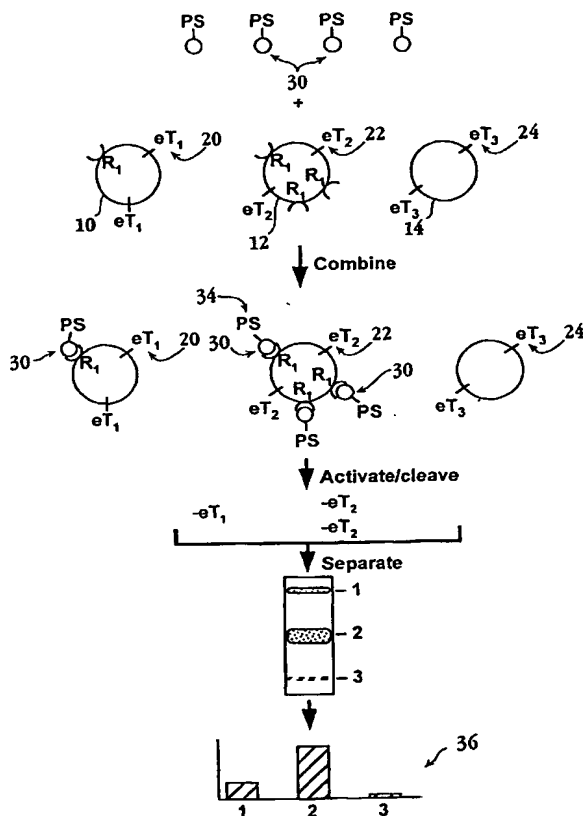
(10) International Publication Number
WO 2004/011128 A1

- (51) International Patent Classification⁷: B01D 57/02, C12Q 1/68, C12P 19/34, C07H 21/02, 21/04, G01N 33/53, 33/543
- (21) International Application Number: PCT/US2003/021701
- (22) International Filing Date: 9 July 2003 (09.07.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/399,056 26 July 2002 (26.07.2002) US
- (71) Applicant (for all designated States except US): ACLARA BIOSCIENCES, INC. [US/US]; 1288 Pear Avenue, Mountain View, CA 94043 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SINGH, Sharat [US/US]; 3420 Royal Meadow Lane, San Jose, CA 95135 (US). CHAN-HUI, Po-Ying [CA/US]; 13056 Parkhurst Drive, Oakland, CA 94619 (US). KIRAKOSSIAN, Hrair [US/US]; 4851 Williams Rd., San Jose, CA 95129 (US).
- (74) Agent: MACEVICZ, Stephen, C.; Aclara Biosciences Inc., 1288 Pear Avenue, Mountain View, CA 94043 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: METHODS AND COMPOSITIONS FOR SCREENING CELL BINDING MOLECULES

(57) Abstract: Ligands, such as antibodies, are screened for binding to cell surface moieties such as receptors. Multiple cell types and/or binding ligands can be screened simultaneously in multiplexed assays. The screening assays employ membrane-anchored electrophoretic probes for detection of binding of the ligand to the cell surface.





Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*